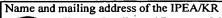
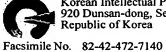
PATENT COOPERATION TREAT

From the

INTERNATIONAL PRELIMINARY EXAMINING

To: LEE, Young-Pil	PCT				
The Chunghwa Building, 1571-18 Seocho-dong, Seocho-gu,	WRITTEN OPINION				
Seoul 137-874, Republic of Korea	(PCT Rule 66)				
a voytes and					
(JAN 2 2 2005)	Date of mailing				
RECEIVED	(day/month/year) 18 JANUARY 2005 (18.01.2005)				
Applicant's or agent's file reference YB-21216-PCT	REPLY DUE within 1 months from the above date of mailing				
International application No. International filing date					
PCT/KR2003/002785 19 DECEMBER 20					
International Patent Classification (IPC) or both national classification (IPC C07D 215/48	tion and IPC				
Applicant					
YUHAN CORPORATION et al					
1. This written opinion is the first (first, etc.) dra	wn by this International Preliminary Examining Authority.				
This opinion contains indications relating to the following item	s:				
I Basis of the opinion					
II Priority					
III Non-establishment of opinion with regard to nov	elty, inventive step and industrial applicability				
IV Lack of unity of invention					
• -	egard to novelty, inventive step or industrial applicability;				
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international applica	tion				
3. The applicant is hereby invited to reply to this opinion.					
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority					
to grant an extension, see Rule 66.2(d) How? By submitting a written reply, accompanied, when	re appropriate, by amendments, according to Rule 66.3				
For the form and the language of the amendments,	see Rules 66.8 and 66.9				
Also For an additional opportunity to submit amendme	nts, see Rule 66.4				
For an examiner's obligation to consider amendme For an informal communication with the examiner					
If no reply is filed, the international preliminary examination					
4. The final date by which the international preliminary					
examination report must be established according to Rule 69.2 is: 11 APRIL 2005 (11.04.2005)					





Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

LEE, Mi Jeong

Telephone No. 82-42-481-5601

Authorized officer



International application No.

PCT/KR2003/002785

WRITTEN OPINION

I. I	I. Basis of the opinion						
1.	With	regard to	the elements of the international application:*				
	X	the intern	ational application as originally filed				
	$\overline{\Box}$	the descri	ption:				
		pages					
		pages _	, filed with the letter of				
		pages _					
	1 . 1	the claims pages	s: , as originally filed				
		pages	, as amended (together with any statment) under Article 19				
		pages _	, filed with the demand				
		pages _	, filed with the letter of				
		the drawi					
		pages _					
		pages _ pages _	, filed with the letter of				
			ence listing part of the description:				
	_	pages	, as originally filed				
		pages _	, filed with the letter of				
		pages	, filed with the letter of				
2.	the i	nternation se elemen	the language, all the elements marked above were available or furnished to this Authority in the language in which all application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is				
		_	uage of a translation furnished for the purposes of international search (under Rule 23.1(b)).				
	Ш		uage of publication of the international application(under Rule 48.3(b)).				
		or 55.3)	uage of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/				
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was lrawn on the basis of the sequence listing:					
		containe	ed inthe international application in printed form.				
		filed tog	gether with the international application in computer readable form.				
		furnishe	ed subsequently to this Authority in written form.				
		furnishe	ed subsequently to this Authority in computer readable form				
	П	tement that the subsequently furnished written sequence listing does not go beyond the disclosure in the					
			tional applicationas as filed has been furinshed. ement that the information recorded in computer readable form is identical to the written sequence listing has				
	ш	been fu	rnished.				
	_						
4.	Ш		endments have resulted in the cancellation of:				
			e description, pages				
			e claims, Nos.				
		th	e drawings,sheet/fig				
5.	\Box	This on	pinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go				
	ш		the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).				
*			heets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed."				



WRITTEN OPINION

International application No.

PCT/KR2003/002785

V. Reasoned statement under Rule 66.2(a)(ii) with reg	ard to novelty, inventive step or industrial applicability;
citations and explanations supporting such stateme	ent

1.	Statement			
	Novelty (N)	Claims	1 - 9	<u>Y</u> ES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-9	N0
	Industrial applicability (IA)	Claims	1 - 9	YES
	•	Claims		NO

2. Citations and explanations

국제조사 보고서의 인용문헌을 다음과 같이 정의함.

D1: US 4599334 A (1986. 7. 8.) D2: US 5869661 A (1999. 2. 9.)

1, 신규성 [PCT Article 33(2)]

청구항 제1-9항은 화학식(II) 화합물과 K3PO4를 반응시켜 화학식(1) 화합물을 제조하는 방법을 청구하고 있는 바, D1 column 5에 화학식(6) 화합물로부터 화학식(7) 화합물을 제조하는 방법이 기재되어 있고, D2 column 5에 폐환 반응을 통해 화학식(1') 화합물을 제조하는 방법이 기재되어 있으나 D1은 K3PO4를 사용한다는 것이 구체적으로 기재되어 있지 않은 점에서 본원발명과 차이를 보이고, D2는 반응하는 화합물의 치환기가 F가 아니라 -OMe 등이라는 점에서 본원발명과 차이를 보이므로 신규성은 인정됩니다.

2. 진보성 [PCT Article 33(3)]

그러나 D1에서 acid-binding agent로 반응에 사용된 butyllithium, potassium carbonate 등을 K3PO4로 치환하여 사용하는 정도 및 D2에서의 반응 화합물의 치환기의 차이 정도는 당업자가용이하게 예상할 수 있는 정도의 것으로 인정되므로 본원발명은 D1 및 D2에 대한 진보성이 인정되지 않습니다.